

Claims

[1] A flame-retardant resin composition comprising a polycarbonate type resin and inorganic particles, wherein the inorganic particles contain particles composed of a complex of silicon dioxide and aluminum oxide and have a 50% particle size (D50) of 1 to 10 μm .

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[2] A flame-retardant resin composition according to Claim 1, wherein the inorganic particles are contained in the total composition in an amount of 1 to 60 weight %.

[3] A flame-retardant resin composition according to Claim 1, wherein the inorganic particles contain aluminum oxide particles and silicon dioxide particles in addition to the particles composed of a complex of silicon dioxide and aluminum oxide.

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[4] A flame-retardant resin composition according to Claim 1, wherein the inorganic particles are fly ash.

[5] A flame-retardant resin composition according to Claim 1, which contains an elution preventer for preventing the elution of components present in the inorganic particles.

[6] A flame-retardant resin composition according to Claim 5, wherein the elution preventer is an adsorbent capable of adsorbing components present in the inorganic particles, or an ion exchange resin.

[7] A flame-retardant resin composition according to Claim 5, wherein the elution preventer for preventing the dissolving-out of components present in the inorganic particles is selected from ferrous sulfate mono-hydrate and Schwertmanite.

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[8] A flame-retardant resin composition according to Claim 1, wherein the inorganic particles contain particles having particle size of 20 μm or less, in an amount of 70 weight % or more.

[9] A flame-retardant resin composition according to Claim 1, wherein the inorganic particles contain total silicon dioxide in an amount of 44 to 85 weight % and total aluminum oxide in an amount of 15 to 40 weight %.

[10] A flame-retardant resin composition according to Claim 9, wherein the total amount of the total silicon dioxide and the total aluminum oxide in the inorganic particles is 60 weight % or more in the total inorganic particles.

[11] A flame-retardant resin composition according to Claim 1, which further contains a fiber-formable fluorinated polymer in an amount of 0.05 to 5 weight % based on the total flame-retardant resin composition.

[12] A flame-retardant molding material containing a flame-retardant resin composition according to any one of Claims 1 to 11.

[13] A molded article obtained by molding a flame-retardant resin

composition according to any one of Claims 1 to 11.